

<p>97-155475/15 A13 BADI 95.08.29 BASF AG *DE 19531650-A1 95.08.29 95DE-1031650 (97.03.06) C08F 12/08, 2/20, 2/44 Prepn. of rapid-foaming, high cell-count expandable polystyrene beads - by aq. suspension polymerisation in presence of polyolefin contg. carboxyl gps. C97-049958 Addnl. Data: SCHERZER D, WITT M, HAHN K, HUSEMANN W, LOEFFLER A, RIETHUES M</p>	A(2-AA, 4-GIB, 8-M10, 8-S6, 10-B5, 11-B6, 12-S1A)
<p>The novel feature in the prepn. of expandable styrene polymer beads by polymerisation in aq. suspension using suspension stabilisers and conventional styrene-soluble catalysts with added foaming agent is that there is also present 0.01-1 wt.% of a polyolefin contg. 1-20 wt.% carboxyl gps., esp. a wax-like ethylene/acrylic acid copolymer.</p> <p>ADVANTAGE Good nucleic formation is achieved so as to give a high cell count with rapid foaming and demoulding, this being effected without the difficulties associated with the use of olefinic carboxylic acids (e.g. acrylic or sorbic acid) as per DE4308636.</p>	<p>EXAMPLE Polystyrene beads with cell count 12, foam times 13/17/23 secs. and bulk density 15.6 g/l were obt'd.. When an ethylene/20% acrylic acid copolymer (COOH gp. content 12%) was used as additive, the corresp. values when no additive (a) or 0.1 wt.% Polysalz S (RTM: Na polyacrylate) (b) was used being (a) 5 cells: 15/20/28 secs.; and 16.4 g/l and (b) 5 cells; 15/18/27 secs.; and 15.8 g/l. (SB) (5pp1958DwgNo.0/0)</p> <p>DE 19531650-A</p>